



(3)

b=2 a b=3

Ex5 a) $A^2 = \begin{pmatrix} 3 & -1 & -1 \\ -1 & 3 & -1 \\ -1 & -1 & 3 \end{pmatrix}$

 $A^2 + A = 2 T_3$

 $A \left(A + \underline{\Psi}_{2}\right) = 2\underline{\Psi}_{3}$

 $A \cdot \frac{1}{2} \left(A + \overline{1}_{3} \right) = \overline{1}_{3}$

donc A-1 = 1 (A - T3)

 $A^{-1} = \frac{1}{2} \begin{pmatrix} 0 & 1 & 1 \\ 1 & 0 & 1 \\ 1 & 1 & 0 \end{pmatrix}$